



# Instruction Manual

**1T-YPBPR-HDMI  
Analog Component to HDMI  
Format Converter**



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## **1.0 INTRODUCTION**

Thanks for purchasing this One Task Format Converter from TV One. The 1T-YPBPR-HDMI converts YPbPr or YCbCr analog component video signals to an HDMI output while also providing integration of an external digital audio signal into the HDMI data stream. This enables display on HDMI monitors or input to HDMI switcher devices. Our professional video conversion products have been serving the industry for over twenty years. TV One offers a full line of high quality Seamless Switchers, Video Scalers, Up/Down/Cross Converters, Analog-Digital Converters (SD/HD-SDI, HDMI, DVI), Format Converters, Standards Converters, TBC/Frame Synchronizers, Matrix Routing Switchers, Signal Distribution Amplifiers and Cat.5 Transmission Systems.

### **1.1 Liability Statement**

Every effort has been made to ensure that this product is free of errors. TV One cannot be held liable for the use of this hardware or any direct or indirect consequential damages arising from its use. It is the responsibility of the user of the hardware to check that it is suitable for his/her requirements and that it is installed correctly. All rights reserved. No parts of this manual may be reproduced or transmitted by any form or means electronic or mechanical, including photocopying, recording or by any information storage or retrieval system without the written consent of the publisher.

TV One reserves the right to revise any of its hardware and software following its policy to modify and/or improve its products where necessary or desirable. This statement does not affect the legal rights of the user in any way.

All third party trademarks and copyrights are recognised. The TV One logo, TV One-task and CORIO are the registered Trademarks of TV One. All other trademarks are the property of their respective holders.

### **1.2 Features**

The 1T-YPBPR-HDMI has many features that enable it to perform in a superior manner. Among these features you will find:

- Excellent HDMI Compliant Video Quality
- Automatic Input Format Detection
- Plug and Play for easy installation
- Toslink Audio Support
- Operating Frequency to 165Mhz

## 2.0 SPECIFICATION

<b>Input</b>	
YPbPr/YUV Video	via 3x RCA Connectors
Digital Audio	via Toslink Optical Connector
<b>Output</b>	
HDMI	via HDMI Connector
<b>Input Resolutions</b>	
Interlaced (50&60Hz)	480i, 576i, 1080i
Progressive (50&60Hz)	480p, 576p, 720p, 1080p
Special (24 to 50Hz)	1080p@24, 1080p@25 1080p@30, 1080p@50
<b>Video Specifications</b>	
Progressive Component	YPbPr
Interlaced Component	YUV (Y,R-Y,B-Y)
Input Signal Levels	Y= 1Vp-p. Pb, Pr, U, V= 0.7Vp-p
Impedance	75 $\Omega$ DOCSXW
Bandwidth	Up to 165Mhz
<b>Compliance</b>	
HDMI	Version 1.2
<b>Mechanical</b>	
Size (H-W-D)	30x76x105mm (1.2"x3"x4.1")
Weight (Net)	200 g (0.43 lbs)
<b>Warranty</b>	
Limited Warranty	3 Years Parts and Labor
<b>Environmental</b>	
Operating Temperature	0° to +50° C (+32° to +122° F)
Operating Humidity	10% to 90%, Non-condensing
Storage Temperature	-10° to +60° C (+14° to +140° F)
Storage Humidity	10% to 90%, Non-condensing
<b>Power Requirement</b>	
External Power Supply	5VDC@1A, Center Positive
<b>Regulatory Approvals</b>	
Converter Unit	FCC, CE, RoHS
Power Supply	UL, CUL, CE, PSE, GS, RoHS
<b>Accessories Included</b>	
1x Power Adapter	US, UK or Euro
1x Operations Manual	
<b>Product Item Number</b>	1T-YPBPR-HDMI

### 3.0 CHECKING PACKAGE CONTENTS

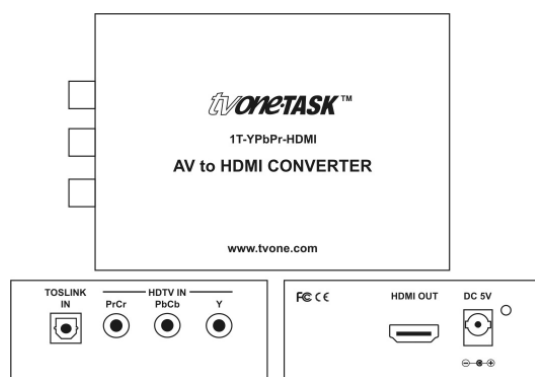
Before attempting to use this unit, please check the packaging and make certain the following items are contained in the shipping carton:

- 1x 1T-YPBPR-HDMI Format Converter
- 1x Power Adapter
- 1x Operations Manual

**Note:** Please retain the original packing material should the need ever arise to return the unit. If you find any items are missing, contact your reseller or TV One immediately. Have the Model and Serial Number and Invoice available for reference when you call.

### 4.0 CONNECTING THE HARDWARE

Please study the drawings below and become familiar with the signal input, output, power requirements plus any controls present.



To begin, connect the AC adapter to the Format Converter's power input. Next connect a component video cable to the source device and then the Converter. After connecting the video cable, connect a Toslink audio cable between the source device's digital audio output and the Toslink input on the converter. Finally, connect an HDMI output cable(s) to the Converter and to the destination device. Once the cables have been connected, you can apply power to the source and destination devices and then plug the Converter's AC adapter into the AC power source. An LED next to the Converter's power input connector will light and the Converter will begin to function as soon as it has power. You should see an image on the output device as well as hear stereo audio (if you connected a cable between the source device's digital audio output and the Converter's TOSLINK connector).

### 5.0 OPERATING THE UNIT

The 1T-YPBPR-HDMI device does not have any controls that require adjustment. Simply connect the cables and power as explained above and the device will automatically convert the analog YPbPr or YCbCr signal present on its input to a Version 1.2 compliant HDMI signal on its output.

## 6.0 TROUBLESHOOTING

Other than problems with power or cabling, there is little in the way of troubleshooting required for the product. If neither the cabling nor the power is at fault and you still have faulty operation, make certain that both the source and destination devices are working properly.

After trying the above suggestions should the problem still persist, contact your dealer for additional suggestions before contacting TV One. Should the dealer's technical personnel be unable to assist you, contact TV One via our support website:

**<http://tvone.crmdesk.com>**. Create a technical support request on the site and our support team will respond within a short period of time.

## 7.0 LIMITED WARRANTY

TV One warrants the original purchaser that the equipment it manufactures or sells will be free from defects in materials and workmanship for a fixed term from the date of purchase. The warranty term for specific product lines is defined below.

1. TV One branded products based on TV One's CORIO technology are warranted for a period of five years from the date of purchase. This includes products with the model number prefix of C2, 1T-C2, CX, A2 or S2.
2. TV One-task branded products, other than those based on TV One's CORIO technology mentioned above, are warranted for a period of three years from the date of purchase. This includes products with the model number prefix of 1T, with the exception of 1T-C2.
3. LCD Monitors are warranted for a period of three years from the date of purchase, with the exception of the LCD panels integrated into the monitors that are supplied by third parties. LCD panels are limited to the term and conditions of the warranty offered by the respective LCD panel manufacturer. Such specific LCD panel warranties are available upon request to TV One.

Should a product, in TV One's opinion, prove defective within this warranty period, TV One, at its option, will repair or replace this product without charge. Any defective parts replaced become the property of TV One. This warranty does not apply to those products which have been damaged due to accident, unauthorized alterations, improper repair, modifications, inadequate maintenance and care, or use in any manner for which the product was not originally intended.

If repairs are necessary under this warranty policy, the original purchaser must obtain a Return Authorization Number from TV One and return the product to a location designated by TV One, freight prepaid. After repairs are complete, the product will be returned, freight prepaid.

LIMITATIONS - All products sold are "as is" and the above Limited Warranty is in lieu of all other warranties for this product, expressed or implied, and is strictly limited to two years from the date of purchase. TV One assumes no liability to distributors, resellers or end-users or any third parties for any loss of use, revenue or profit.

TV One makes no other representation of warranty as to fitness for the purpose or merchantability or otherwise in respect of any of the products sold. The liability of TV One with respect to any defective products will be limited to the repair or replacement of such products. In no event shall TV One be responsible or liable for any damage arising from the use of such defective products whether such damages be direct, indirect, consequential or otherwise, and whether such damages are incurred by the reseller, end-user or any third party.

## **8.0 REGULATORY COMPLIANCE**

The 1T-YPBPR-HDMI Converter has been tested for compliance with appropriate FCC and CE rules and regulations. The Power Adaptor/Supplies have been tested for compliance with appropriate UL, CUL, CE, PSE, GS Rules, Regulations and/or Guidelines. These Products and Power Adapters are RoHS Compliant.

## **9.0 CONTACT INFORMATION**

Should you have questions or require assistance with this product in areas not covered by this manual, please contact TV One at the appropriate location.



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End of Manual